

RAW SEQUENCE LISTING

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Application Serial Number: 10/509,565A

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RAW SEQUENCE LISTING

DATE: 07/19/2005

PATENT APPLICATION: US/10/509,565A

TIME: 08:52:52

Input Set : A:\10-509,565 Sequence Listing.txt

Output Set : N:\CRF4\07192005\J509565A.raw

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3 <110> APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.
4     TAKEDA, Masayoshi
5     ABE, Kunitake
6     YAMAJI, Noboru
8 <120> TITLE OF INVENTION: NOVEL PROMOTER
10 <130> FILE REFERENCE: Q83865
12 <140> CURRENT APPLICATION NUMBER: 10/509,565A
13 <141> CURRENT FILING DATE: 2004-09-29
15 <150> PRIOR APPLICATION NUMBER: PCT/JP03/07807
16 <151> PRIOR FILING DATE: 2003-06-19
18 <150> PRIOR APPLICATION NUMBER: JP 2002-180543
19 <151> PRIOR FILING DATE: 2002-06-20
21 <160> NUMBER OF SEQ ID NOS: 33
23 <170> SOFTWARE: PatentIn version 3.3
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 3675
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo sapiens
31 <220> FEATURE:
32 <221> NAME/KEY: CDS
33 <222> LOCATION: (1)..(3675)
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38 1           5           10           15
40 ctg ttg gcg cag gtg gcc gag cag gca cct gcg tgc gcc atg gga ccc      96
41 Leu Leu Ala Gln Val Ala Glu Gln Ala Pro Ala Cys Ala Met Gly Pro
42           20           25           30
44 gca gcg gca gcg cct ggg agc ccg agc gtc ccg cgt cct cct cca ccc      144
45 Ala Ala Ala Ala Pro Gly Ser Pro Ser Val Pro Arg Pro Pro Pro Pro
46           35           40           45
48 gcg gag cgg ccg ggc tgg atg gaa aag ggc gaa tat gac ctg gtc tct      192
49 Ala Glu Arg Pro Gly Trp Met Glu Lys Gly Glu Tyr Asp Leu Val Ser
50 50           55           60
52 gcc tac gag gtt gac cac agg ggc gat tac gtg tcc cat gaa atc atg      240
53 Ala Tyr Glu Val Asp His Arg Gly Asp Tyr Val Ser His Glu Ile Met
54 65           70           75           80
56 cac cat cag cgg cgg aga aga gca gtg gcc gtg tcc gag gtt gag tct      288
57 His His Gln Arg Arg Arg Ala Val Ala Val Ser Glu Val Glu Ser
58 85           90           95
60 ctt cac ctt cgg ctg aaa ggc tcc agg cac gac ttc cac gtg gat ctg      336
61 Leu His Leu Arg Leu Lys Gly Ser Arg His Asp Phe His Val Asp Leu
62 100          105          110

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64	agg act tcc agc agc cta gtg gct cct ggc ttt att gtg cag acg ttg	384
65	Arg Thr Ser Ser Ser Leu Val Ala Pro Gly Phe Ile Val Gln Thr Leu	
66	115 120 125	
68	gga aag aca ggc act aag tct gtg cag act tta ccg cca gag gac ttc	432
69	Gly Lys Thr Gly Thr Lys Ser Val Gln Thr Leu Pro Pro Glu Asp Phe	
70	130 135 140	
72	tgt ttc tat caa ggc tct ttg cga tca cac aga aac tcc tca gtg gcc	480
73	Cys Phe Tyr Gln Gly Ser Leu Arg Ser His Arg Asn Ser Ser Val Ala	
74	145 150 155 160	
76	ctt tca acc tgc caa ggc ttg tca ggc atg ata cga aca gaa gag gca	528
77	Leu Ser Thr Cys Gln Gly Leu Ser Gly Met Ile Arg Thr Glu Glu Ala	
78	165 170 175	
80	gat tac ttc cta agg cca ctt cct tca cac ctc tca tgg aaa ctc ggc	576
81	Asp Tyr Phe Leu Arg Pro Leu Pro Ser His Leu Ser Trp Lys Leu Gly	
82	180 185 190	
84	aga gct gcc caa ggc agc tcg cca tcc cac gta ctg tac aag aga tcc	624
85	Arg Ala Ala Gln Gly Ser Ser Pro Ser His Val Leu Tyr Lys Arg Ser	
86	195 200 205	
88	aca gag ccc cat gct cct ggg gcc agt gag gtc ctg gtg acc tca agg	672
89	Thr Glu Pro His Ala Pro Gly Ala Ser Glu Val Leu Val Thr Ser Arg	
90	210 215 220	
92	aca tgg gag ctg gca cat caa ccc ctg cac agc agc gac ctt cgc ctg	720
93	Thr Trp Glu Leu Ala His Gln Pro Leu His Ser Ser Asp Leu Arg Leu	
94	225 230 235 240	
96	gga ctg cca caa aag cag cat ttc tgt gga aga cgc aag aaa tac atg	768
97	Gly Leu Pro Gln Lys Gln His Phe Cys Gly Arg Arg Lys Lys Tyr Met	
98	245 250 255	
100	ccc cag cct ccc aag gaa gac ctc ttc atc ttg cca gat gag tat aag	816
101	Pro Gln Pro Pro Lys Glu Asp Leu Phe Ile Leu Pro Asp Glu Tyr Lys	
102	260 265 270	
104	tct tgc tta cgg cat aag cgc tct ctt ctg agg tcc cat aga aat gaa	864
105	Ser Cys Leu Arg His Lys Arg Ser Leu Leu Arg Ser His Arg Asn Glu	
106	275 280 285	
108	gaa ctg aac gtg gag acc ttg gtg gtg gtc gac aaa aag atg atg caa	912
109	Glu Leu Asn Val Glu Thr Leu Val Val Val Asp Lys Lys Met Met Gln	
110	290 295 300	
112	aac cat ggc cat gaa aat atc acc acc tac gtg ctc acg ata ctc aac	960
113	Asn His Gly His Glu Asn Ile Thr Thr Tyr Val Leu Thr Ile Leu Asn	
114	305 310 315 320	
116	atg gta tct gct tta ttc aaa gat gga aca ata gga gga aac atc aac	1008
117	Met Val Ser Ala Leu Phe Lys Asp Gly Thr Ile Gly Gly Asn Ile Asn	
118	325 330 335	
120	att gca att gta ggt ctg att ctt cta gaa gat gaa cag cca gga ctg	1056
121	Ile Ala Ile Val Gly Leu Ile Leu Leu Glu Asp Glu Gln Pro Gly Leu	
122	340 345 350	
124	gtg ata agt cac cac gca gac cac acc tta agt agc ttc tgc cag tgg	1104
125	Val Ile Ser His His Ala Asp His Thr Leu Ser Ser Phe Cys Gln Trp	
126	355 360 365	
128	cag tct gga ttg atg ggg aaa gat ggg act cgt cat gac cac gcc atc	1152

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130		370					375					380					
132	tta	ctg	act	ggt	ctg	gat	ata	tgt	tcc	tgg	aag	aat	gag	ccc	tgt	gac	1200
133	Leu	Leu	Thr	Gly	Leu	Asp	Ile	Cys	Ser	Trp	Lys	Asn	Glu	Pro	Cys	Asp	
134	385					390					395				400		
136	act	tgt	gga	ttt	gca	ccc	ata	agt	gga	atg	tgt	agt	aaa	tat	cgc	agc	1248
137	Thr	Leu	Gly	Phe	Ala	Pro	Ile	Ser	Gly	Met	Cys	Ser	Lys	Tyr	Arg	Ser	
138				405						410					415		
140	tgc	acg	att	aat	gaa	gat	aca	ggt	ctt	gga	ctg	gcc	ttc	acc	att	gcc	1296
141	Cys	Thr	Ile	Asn	Glu	Asp	Thr	Gly	Leu	Gly	Leu	Ala	Phe	Thr	Ile	Ala	
142				420						425					430		
144	cat	gag	tct	gga	cac	aac	ttt	ggc	atg	att	cat	gat	gga	gaa	ggg	aac	1344
145	His	Glu	Ser	Gly	His	Asn	Phe	Gly	Met	Ile	His	Asp	Gly	Glu	Gly	Asn	
146			435					440				445					
148	atg	tgt	aaa	aag	tcc	gag	ggc	aac	atc	atg	tcc	cct	aca	ttg	gca	gga	1392
149	Met	Cys	Lys	Lys	Ser	Glu	Gly	Asn	Ile	Met	Ser	Pro	Thr	Leu	Ala	Gly	
150		450					455				460						
152	cgc	aat	gga	gtc	ttc	tcc	tgg	tca	ccc	tgc	agc	cgc	cag	tat	cta	cac	1440
153	Arg	Asn	Gly	Val	Phe	Ser	Trp	Ser	Pro	Cys	Ser	Arg	Gln	Tyr	Leu	His	
154	465				470					475					480		
156	aaa	ttt	cta	agc	acc	gct	caa	gct	atc	tgc	ctt	gct	gat	cag	cca	aag	1488
157	Lys	Phe	Leu	Ser	Thr	Ala	Gln	Ala	Ile	Cys	Leu	Ala	Asp	Gln	Pro	Lys	
158				485						490					495		
160	cct	gtg	aag	gaa	tac	aag	tat	cct	gag	aaa	ttg	cca	gga	gaa	tta	tat	1536
161	Pro	Val	Lys	Glu	Tyr	Lys	Tyr	Pro	Glu	Lys	Leu	Pro	Gly	Glu	Leu	Tyr	
162			500						505				510				
164	gat	gca	aac	aca	cag	tgc	aag	tgg	cag	ttc	gga	gag	aaa	gcc	aag	ctc	1584
165	Asp	Ala	Asn	Thr	Gln	Cys	Lys	Trp	Gln	Phe	Gly	Glu	Lys	Ala	Lys	Leu	
166			515					520				525					
168	tgc	atg	ctg	gac	ttt	aaa	aag	gac	atc	tgt	aaa	gcc	ctg	tgg	tgc	cat	1632
169	Cys	Met	Leu	Asp	Phe	Lys	Lys	Asp	Ile	Cys	Lys	Ala	Leu	Trp	Cys	His	
170		530				535					540						
172	cgt	att	gga	agg	aaa	tgt	gag	act	aaa	ttt	atg	cca	gca	gca	gaa	ggc	1680
173	Arg	Ile	Gly	Arg	Lys	Cys	Glu	Thr	Lys	Phe	Met	Pro	Ala	Ala	Glu	Gly	
174	545				550					555					560		
176	aca	att	tgt	ggg	cat	gac	atg	tgg	tgc	cgg	gga	gga	cag	tgt	gtg	aaa	1728
177	Thr	Ile	Cys	Gly	His	Asp	Met	Trp	Cys	Arg	Gly	Gly	Gln	Cys	Val	Lys	
178				565						570					575		
180	tat	ggt	gat	gaa	ggc	ccc	aag	ccc	acc	cat	ggc	cac	tgg	tcg	gac	tgg	1776
181	Tyr	Gly	Asp	Glu	Gly	Pro	Lys	Pro	Thr	His	Gly	His	Trp	Ser	Asp	Trp	
182			580						585						590		
184	tct	tct	tgg	tcc	cca	tgc	tcc	agg	acc	tgc	gga	ggg	gga	gta	tct	cat	1824
185	Ser	Ser	Trp	Ser	Pro	Cys	Ser	Arg	Thr	Cys	Gly	Gly	Val	Ser	His		
186			595					600				605					
188	agg	agt	cgc	ctc	tgc	acc	aac	ccc	aag	cca	tcg	cat	gga	ggg	aag	ttc	1872
189	Arg	Ser	Arg	Leu	Cys	Thr	Asn	Pro	Lys	Pro	Ser	His	Gly	Gly	Lys	Phe	
190		610				615					620						
192	tgt	gag	ggc	tcc	act	cgc	act	ctg	aag	ctc	tgc	aac	agt	cag	aaa	tgt	1920
193	Cys	Glu	Gly	Ser	Thr	Arg	Thr	Leu	Lys	Leu	Cys	Asn	Ser	Gln	Lys	Cys	

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196	ccc	cgg	gac	agt	gtt	gac	ttc	cgt
197	Pro	Arg	Asp	Ser	Val	Asp	Phe	Arg
198								
200	agc	aga	cga	ttc	aga	ggg	cgg	cac
201	Ser	Arg	Arg	Phe	Arg	Gly	Arg	His
202								
204	gta	gaa	gat	cag	gac	tta	tgc	aaa
205	Val	Glu	Asp	Gln	Asp	Leu	Cys	Lys
206								
208	gat	ttc	ttt	tct	ttg	tca	aat	aaa
209	Asp	Phe	Phe	Ser	Leu	Ser	Asn	Lys
210								
212	tcg	gag	gat	agc	cgt	aat	gtt	tgt
213	Ser	Glu	Asp	Ser	Arg	Asn	Val	Cys
214	705							
216	gga	tgt	gac	aat	gtc	ctt	gga	tct
217	Gly	Cys	Asp	Asn	Val	Leu	Gly	Ser
218								
220	gtg	tgt	aac	ggg	aat	aac	tca	gcc
221	Val	Cys	Asn	Gly	Asn	Asn	Ser	Ala
222								
224	acc	aag	cac	cac	cac	acc	aac	cag
225	Thr	Lys	His	His	His	Thr	Asn	Gln
226								
228	tct	gga	gcc	cgg	agt	atc	cgc	atc
229	Ser	Gly	Ala	Arg	Ser	Ile	Arg	Ile
230								
232	tac	att	tct	gtg	cgc	aat	gcc	ctc
233	Tyr	Ile	Ser	Val	Arg	Asn	Ala	Leu
234	785							
236	tgg	acc	gtg	gac	tgg	ccc	ggc	cgg
237	Trp	Thr	Val	Asp	Trp	Pro	Gly	Arg
238								
240	gac	tac	aga	cgg	tcc	tat	aat	gag
241	Asp	Tyr	Arg	Arg	Ser	Tyr	Asn	Glu
242								
244	cca	acc	aac	gag	aca	ctg	att	gtg
245	Pro	Thr	Asn	Glu	Thr	Leu	Ile	Val
246								
248	ccg	ggt	gtt	gcc	tgg	gaa	tac	tcc
249	Pro	Gly	Val	Ala	Trp	Glu	Tyr	Ser
250								
252	cag	ccc	cct	gcc	cag	ccc	agc	tac
253	Gln	Pro	Pro	Ala	Gln	Pro	Ser	Tyr
254	865							
256	tgc	tcc	gtg	tcc	tgc	gga	ggg	gga
257	Cys	Ser	Val	Ser	Cys	Gly	Gly	Gly
258								

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261	Tyr	Arg	Asp	Leu	Lys	Phe	Gln	Val	Asn	Met	Ser	Phe	Cys	Asn	Pro	Lys	
262				900					905					910			
264	aca	cga	cct	gtc	acg	ggg	ctg	gtg	cct	tgc	aaa	gta	tct	gcc	tgt	cct	2784
265	Thr	Arg	Pro	Val	Thr	Gly	Leu	Val	Pro	Cys	Lys	Val	Ser	Ala	Cys	Pro	
266			915					920						925			
268	ccc	agc	tgg	tcc	gtg	ggg	aac	tgg	agt	gcc	tgc	agt	cgg	acg	tgt	ggc	2832
269	Pro	Ser	Trp	Ser	Val	Gly	Asn	Trp	Ser	Ala	Cys	Ser	Arg	Thr	Cys	Gly	
270			930				935							940			
272	ggg	ggt	gcc	cag	agc	cgc	ccc	gtg	cag	tgc	aca	cgg	cgg	gtg	cac	tat	2880
273	Gly	Gly	Ala	Gln	Ser	Arg	Pro	Val	Gln	Cys	Thr	Arg	Arg	Val	His	Tyr	
274	945					950					955				960		
276	gac	tcg	gag	cca	gtc	ccg	gcc	agc	ctg	tgc	cct	cag	cct	gct	ccc	tcc	2928
277	Asp	Ser	Glu	Pro	Val	Pro	Ala	Ser	Leu	Cys	Pro	Gln	Pro	Ala	Pro	Ser	
278				965						970				975			
280	agc	agg	cag	gcc	tgc	aac	tct	cag	agc	tgc	cca	cct	gca	tgg	agc	gcc	2976
281	Ser	Arg	Gln	Ala	Cys	Asn	Ser	Gln	Ser	Cys	Pro	Pro	Ala	Trp	Ser	Ala	
282				980					985					990			
284	ggg	ccc	tgg	gca	gag	tgc	tca	cac	acc	tgt	ggg	aag	ggg	tgg	agg	aag	3024
285	Gly	Pro	Trp	Ala	Glu	Cys	Ser	His	Thr	Cys	Gly	Lys	Gly	Trp	Arg	Lys	
286			995				1000						1005				
288	cgg	gca	gtg	gcc	tgt	aag	agc	acc	aac	ccc	tcg	gcc	aga	gcg	cag		3069
289	Arg	Ala	Val	Ala	Cys	Lys	Ser	Thr	Asn	Pro	Ser	Ala	Arg	Ala	Gln		
290		1010					1015					1020					
292	ctg	ctg	ccc	gac	gct	gtc	tgc	acc	tcc	gag	ccc	aag	ccc	agg	atg		3114
293	Leu	Leu	Pro	Asp	Ala	Val	Cys	Thr	Ser	Glu	Pro	Lys	Pro	Arg	Met		
294		1025					1030					1035					
296	cat	gaa	gcc	tgt	ctg	ctt	cag	cgc	tgc	cac	aag	ccc	aag	aag	ctg		3159
297	His	Glu	Ala	Cys	Leu	Leu	Gln	Arg	Cys	His	Lys	Pro	Lys	Lys	Leu		
298		1040					1045					1050					
300	cag	tgg	ctg	gtg	tcc	gcc	tgg	tcc	cag	tgc	tct	gtg	aca	tgt	gaa		3204
301	Gln	Trp	Leu	Val	Ser	Ala	Trp	Ser	Gln	Cys	Ser	Val	Thr	Cys	Glu		
302		1055					1060					1065					
304	aga	gga	aca	cag	aaa	aga	ttc	tta	aaa	tgt	gct	gaa	aag	tat	gtt		3249
305	Arg	Gly	Thr	Gln	Lys	Arg	Phe	Leu	Lys	Cys	Ala	Glu	Lys	Tyr	Val		
306		1070					1075					1080					
308	tct	gga	aag	tat	cga	gag	ctg	gcc	tca	aag	aag	tgc	tca	cat	ttg		3294
309	Ser	Gly	Lys	Tyr	Arg	Glu	Leu	Ala	Ser	Lys	Lys	Cys	Ser	His	Leu		
310		1085					1090					1095					
312	ccg	aag	ccc	agc	ctg	gag	ctg	gaa	cgt	gcc	tgc	gcc	ccg	ctt	cca		3339
313	Pro	Lys	Pro	Ser	Leu	Glu	Leu	Glu	Arg	Ala	Cys	Ala	Pro	Leu	Pro		
314		1100					1105					1110					
316	tgc	ccc	agg	cac	ccc	cca	ttt	gct	gct	gcg	gga	ccc	tcg	agg	ggc		3384
317	Cys	Pro	Arg	His	Pro	Pro	Phe	Ala	Ala	Ala	Gly	Pro	Ser	Arg	Gly		
318		1115					1120					1125					
320	agc	tgg	ttt	gcc	tca	ccc	tgg	tct	cag	tgc	acg	gcc	agc	tgt	ggg		3429
321	Ser	Trp	Phe	Ala	Ser	Pro	Trp	Ser	Gln	Cys	Thr	Ala	Ser	Cys	Gly		
322		1130					1135					1140					
324	gga	ggc	gtt	cag	acg	agg	tcc	gtg	cag	tgc	ctg	gct	ggg	ggc	cgg		3474

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